

R - 14	10 - 55
R - 23	10 - 50
R - 125	5 - 20
R - 236fa	7 - 40

82. [Once Amended] Refrigerant blends not containing HCFC's, for use in a very low temperature refrigeration system where the evaporator temperature is as low as 105K, said refrigerant blends comprising:

	Ingredient Name	Range (% by mol)
1	At least one of neon (Ne) or helium (He)	0.0 - 10.0
2	At least one of argon (Ar) or nitrogen (N2)	10.0 - 45.0
3	R - 14 (CF4)	20.0 - 50.0
4	R - 23 (CHF3)	10.0 - 30.0
5	R - 125 (C2HF5)	8.0 - 15.0
6	R - 134a	0.0 - 5.0
7	Other high boiling components: at least one of R - 236fa, E - 347, R - 245fa, R - 4112	0.0 - 3.0

83. [Once Amended] Refrigerant blends not containing HCFC's, for use in a very low temperature refrigeration system with low temperature (evaporator) as low as 118K, said refrigerant blends comprising:

	Ingredient Name	Range (% by mole)
1	At least one of argon (Ar) or nitrogen (N2)	10.0 - 40.0
2	R - 14	20.0 - 50.0
3	R - 23	10.0 - 40.0
4	R - 125	0.0 - 35.0
5	R - 134a	0.0 - 10.0
6	At least one of E - 347, R - 4112, R - 236fa, R - 245fa.	0.0 - 6.0

provided that at least one of E - 347, R - 4112, R - 236fa, or R - 245fa is present in the blend.

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4. [Once Amended] Refrigerant blends not containing HCFC's, for use in a very low temperature refrigeration system with low temperature (evaporator) as low as 130K, said refrigerant blends comprising:

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	Ingredient Name	Range (% by mole)
1	At least one of argon (Ar) or nitrogen (N2)	2.0 - 40.0%
2	R - 14	10.0- 50.0%
3	R - 23	10.0- 40.0%
4	R - 125	0.0- 40.0%
5	R - 134a	0.0- 15.0%
6	At least one of R - 245fa, R - 236fa, or E - 347, or R - 4112.	0.0- 30.0%

provided that at least one of R - 245fa, R - 236fa, E - 347, or R - 4112 is present in the blend.

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5. [Once Amended] Refrigerant blends not containing HCFC's, for use in a very low temperature refrigeration system with low temperature (evaporator) as low as 140K, said refrigerant blends comprising:

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	Ingredient Name	Range (% by mol)
1	At least one of argon (Ar) or nitrogen (N2)	2.0 - 40.0%
2	R - 14	10.0 - 50.0%
3	R - 23	10.0 - 40.0%
4	R - 125	0.0 - 30.0%
5	At least one of R - 236fa, R - 245fa, E - 347, or R - 4112.	0.0 - 15.0%

provided that at least one of R - 236fa, R - 245fa, E - 347, or R - 4112 is present in the blend.

39. [Once Amended] Refrigerant blends not containing HCFC's, for use low temperature refrigeration system with low temperature (evaporator) as low as 155K, said refrigerant blends comprising:

	Ingredient Name	Range (% by mole)
1	At least one of argon (Ar) or nitrogen (N2)	0.0 - 40.0%
2	R—14	5.0 - 50.0%
3	R—23	5.0 - 40.0%
4	R—125	0.0 - 40.0%
5	R—134a	0.0 - 30.0%
6	At least one of R - 236fa or R - 245fa	0.0 - 30.0%
7	At least one of E - 347 or R - 4112	0.0 - 20.0%

provided that at least one of R - 236fa, R - 245fa, E - 347, or R - 4112 is present in the blend.

Add new claim 43 as follows:

43. [New] Refrigerant blends not containing HCFC for use in a very low temperature refrigeration system, said refrigerant blends selected from the group comprising Blend A, Blend B, Blend C, and Blend D where the components of each blend in mol percent are as follows:

	Molar Fraction (percent)			
Component	Blend A	Blend B	Blend C	Blend D
Argon	13	24	18	8
R - 14	34	26	35	24
R - 23	28	22	21	32
R - 125	11	11	12	11
R - 236fa	14	17	14	25